

BPARAMETER command

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The **BPARAMETER** command is used to add a parameter with grips to a dynamic block definition.

Command Access:

Command : BPARAMETER

Command Prompts:

Enter parameter type [Alignment/Base/Point/Linear/Polar/Xy/Rotation/Flip/Visibility/lookUp]:

Function Description:

This command could only be used in block editor. The parameter is used to define custom property for block reference. The added parameter must be associated with a certain action to form a dynamic block.

Relative Glossary:

Alignment:

Rotate block reference around a certain point to align it with other objects.

Specify base point : Specify base point, the block reference will rotate around this point to align with another object.

Name : Set "name" custom property of this parameter.

Specify alignment direction : Specify alignment angle of block reference.

Type : Specify alignment type, perpendicular, or tangent.

Base:

Specify a changeable base point for geometry graph in dynamic block reference.

Specify parameter location:

Specify a default base point location for block definition base. This is the location for base grip in block definition.

Point :

Define custom x and y properties of block reference.

Specify parameter location : Specify x and y parameter location in block definition. This is the location for base grip in the block reference.

Name : Specify name.

Label : Specify a custom description label to define parameter location.

Chain : Determine whether the parameter is contained in other associated action selection set or not.

Yes : if one parameter is associated with more than one action and one of those actions is edited; other associated actions will be activated.

No : if one parameter is associated with more than one action and one of those actions is edited; other associated actions will not be activated.

Description : Extend description of custom property for "label".

Palette : Determine the "label" custom property displaying in "property" palette or not when specifying graph in block reference.

Linear[?]

Specify distance between two key points in block definition.

Specify start point : Specify a key point for parameter in block definition.

Name : Specify name.

Label : Specify a custom description label to define parameter location.

Chain : Determine whether the parameter is contained in other associated action selection set or not.

Yes : if one parameter is associated with more than one action and one of those actions is edited; other associated actions will be activated.

No : if one parameter is associated with more than one action and one of those actions is edited; other associated actions will not be activated.

Description : Extend description of custom property for "label".

Base : Specify "base location" property for the parameter.

Start point : Edit the start point of parameter in block reference, the start point of parameter keeps still.

Midpoint : The middle point of parameter keeps still. The start point and endpoint of parameter move the same distance to middle point at the same time..

Palette:

Prompt to display property in Properties palette or not.

Value set:

Limit available value of parameter to specified value in set.

None:

Edit the start point of parameter in block reference, the start point of parameter keeps still.

List:

Specify available value list for block reference. Increment:

Specify parameter increment, maximum, and minimum value in block reference.

Specify label location:

Specify label location.

Enter number of grips:

Specify number of grips displaying in block reference.

0 : display no grip in block reference. Users could edit selected geometry graph in "property" palette or "property query table".

1 : grips display on the endpoint of parameter.

2 : grips only display on the start point and endpoint of parameter.

Polar

Specify distance and angle between two key points in block definition.

Start point : Specify a point for reference to place grip in block definition.

Name : Specify name.

Label : Specify a custom description label to define parameter location.

Chain : Determine whether the parameter is contained in other associated action selection set or not.

Yes : if one parameter is associated with more than one action and one of those actions is edited; other associated actions will be activated.

No : if one parameter is associated with more than one action and one of those actions is edited; other associated actions will not be activated.

Description : Extend description of custom property for "label".

Palette : Prompt to display property in Properties palette or not.

Value set : Limit available value of parameter to specified value in set.

None : No available value.

List : Specify available value list for block reference.

Increment : Specify parameter increment, maximum, and minimum value in block reference.

Specify endpoint : Specify endpoint to determine distance and angle. The distance and angle are custom properties in "Property" palette.

Specify label location : Specify label location.

Enter number of grips [0/1/2] <2> : Specify number of grips displaying in block reference.

0 : display no grip in block reference. Users could edit selected geometry graph in "property" palette or "property query table".

1 : grips display on the endpoint of parameter.

2 : grips only display on the start point and endpoint of parameter.

Xy:

Define the x and y distance from base point in block definition.

Start point : Specify the maximum x distance of parameter.

Name : Specify name.

Label : Specify a custom description label to define parameter location.

Chain : Determine whether the parameter is contained in other associated action selection set or not.

Yes : if one parameter is associated with more than one action and one of those actions is edited; other associated actions will be activated.

No : if one parameter is associated with more than one action and one of those actions is edited; other associated actions will not be activated.

Description : Extend description of custom property for “label”.

Palette : Prompt to display property in Properties palette or not.

Value set : Limit available value of parameter to specified value in set.

None : No available value.

List : Specify available value list for block reference.

Increment : Specify parameter increment, maximum, and minimum value in block reference.

Specify endpoint : Specify the maximum y distance of parameter.

Enter number of grips [0/1/2/4] <1> : Specify number of grips displaying in block reference.

0 :display no grip in block reference. Users could edit selected geometry graph in “property” palette or “property query table”.

1 : grips display on the endpoint of y distance.

2 : grips display on two endpoints.

4 : grips display on all of four corner points.

Rotation: Define rotation angle of block reference.

Start point : Specify rotation point for selected geometry graph.

Name : Specify name.

Label : Specify a custom description label to define parameter location.

Chain : Determine whether the parameter is contained in other associated action selection set or not.

Yes : if one parameter is associated with more than one action and one of those actions is edited; other associated actions will be activated.

No : if one parameter is associated with more than one action and one of those actions is edited; other associated actions will not be activated.

Description : Extend description of custom property for “label”.

Palette : Prompt to display property in Properties palette or not.

Value set : Limit available value of parameter to specified value in set.

None : No available value.

List : Specify available value list for block reference.

Increment : Specify parameter increment, maximum, and minimum value in block reference.

Specify radius of parameter : Specify distance from parameter base point to grips.

Specify default Rotation Angle : Specify grip position in block reference.

Base angle : Specify base angle value except 0 for parameter grip.

Specify label location : Specify label location.

Enter number of grips [0/1] <1> : Specify number of grips displaying in block reference.

0 :display no grip in block reference. Users could edit selected geometry graph in “property” palette or “property query table”.

1 : grip displays on the endpoint.

Flip : Mirror selected object or the whole block reference by the reflection line.

Base point of reflection line : Specify a reflection line for mirroring objects or the whole block reference.

Name : Specify name.

Label : Specify a custom description label to define parameter location.

Description : Extend description of custom property for “label”.

Palette : Prompt to display property in Properties palette or not.

Specify the endpoint projection lines : Specify the endpoint of reflection line.

Specify label location : Specify label location.

Enter number of grips [0/1] <1> : Specify number of grips displaying in block reference.

0 : display no grip in block reference. Users could edit selected geometry graph in “property” palette or “property query table”.

1 : grip displays on the endpoint.

Visibility : Define visible object or invisible object in block definition.

Specify parameter location : Specify grip location. The parameter could be located anywhere in block definition.

Name : Specify name.

Label : Specify a custom description label to define parameter location.

Description : Extend description of custom property for “label”.

Palette : Prompt to display property in Properties palette or not.

lookUp : Define custom parameter that determined by lookup table.

Specify parameter location : Specify parameter location.

Name : Specify name.

Label : Specify a custom description label to define parameter location.

Description : Extend description of custom property for “label”.

Palette : Prompt to display property in Properties palette or not.

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